

COMBINED DECLARATION AND POWER OF ATTORNEY

As a below named inventor, I hereby declare that:

This declaration is of the following type:

- ☐ original
- ☐ divisional
- ☐ continuation
- ☒ continuation-in-part

INVENTORSHIP IDENTIFICATION

My residence, post office address and citizenship are as stated below next to my name. I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled:

RELIABILITY BARRIER INTEGRATION FOR CU APPLICATION

SPECIFICATION IDENTIFICATION

The specification of which:

- ☒ is attached hereto
- ☐ was filed on _____, under Serial No. _____, executed on even date herewith; or
- ☐ Express Mail No. (as Serial No. not yet known)
- and was amended on _____ (if applicable)
- ☐ was described and claimed in PCT International Application No. _____
- filed on _____ and as amended under PCT Article 19 on _____.

ACKNOWLEDGMENT OF REVIEW OF PAPERS AND DUTY OF CANDOR

I hereby state that I have reviewed and understand the contents of the above-identified specification, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose all information I know to be material to patentability in accordance with

Title 37, Code of Federal Regulations, 1.56, and which is material to the examination of this application; namely, information where there is a substantial likelihood that a reasonable Examiner would consider it important in deciding whether to allow the application to issue as a patent, and

- ☐ In compliance with this duty there is attached an Information Disclosure Statement in accordance with 37 CFR 1.98.

10053631.014703

PRIORITY CLAIM (35 U.S.C. 119)

I hereby claim foreign priority benefits under Title 35, United States Code, 119, of any provisional or foreign application(s) for patent or inventor's certificate or of any PCT international application(s) designating at least one country other than the United States of America listed below, and have also identified below any provisional or foreign application(s) for patent or inventor's certificate or any PCT international application(s) designating at least one country other than the United States of America filed by me on the same subject matter having a filing date before that of the application(s) of which priority is claimed.

☒ No such applications have been filed.

☐ Such applications have been filed as follows:

- A. Prior foreign/PCT application(s) filed within 12 mos. (6 mos. for design) prior to this application, and any priority claims under 35 U.S.C. 119

Country/PCT	Application No	Date Filed	Priority Claimed
			<input type="checkbox"/> Yes <input type="checkbox"/> No
			<input type="checkbox"/> Yes <input type="checkbox"/> No
			<input type="checkbox"/> Yes <input type="checkbox"/> No

- B. All foreign application(s), if any, filed more than 12 mos. (6 mos for design) prior to this U.S. application

Country:
Application No:
Filing date:

- C. U.S. Provisional Application filed within 12 months prior to this application

Serial No.	Filing Date
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PRIORITY CLAIM (35 U.S.C. 120)

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☐ No such applications have been filed
☒ Such applications have been filed, as follows:

Serial No.	Filing Date	Patented	Pending	Status
				Abandoned
08/856,116	May 14, 1997		Pending	

10052331-011702

POWER OF ATTORNEY

I hereby appoint the following attorneys and/or agents to prosecute this application and transact all business in the Patent and Trademark Office connected therewith:

Donald Verplancken	Registration No. 33,217
Michael B. Einschlag	Registration No. 29,301
Peter J. Sgarbossa	Registration No. 25,610
Lawrence Edelman	Registration No. 25,226
Michael L. Sherrard	Registration No. 28,041
Raymond Kam-On Kwong	Registration No. 37,165
James C. Wilson	Registration No. 35,412
Robert W. Mulcahy	Registration No. 25,436
Walter Benjamin Glenn	Registration No. 44,713
B. Todd Patterson	Registration No. 37,906
Raymond R. Moser, Jr.	Registration No. 34,682
Keith M. Tackett	Registration No. 32,008
Douglas H. Elliott	Registration No. 32,982
William B. Patterson	Registration No. 34,102

Send correspondence to:

Patent Counsel
Applied Materials, Inc.
P.O. Box 450-A
Santa Clara, CA 95052

Direct telephone calls to:

B. Todd Patterson
MOSER, PATTERSON & SHERIDAN, L.L.P.
713-623-4844

DECLARATION

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Full name of **first** inventor: MING XI

Inventor's signature: [Signature] Date: 11/10/02

Residence: 138 Beaumere Way
Milpitas, CA 95035

Post Office Address: SAME AS ABOVE
U.S.A.

Country of Citizenship: P.R. CHINA

Full name of **second** inventor: PAUL FREDERICK SMITH

Inventor's signature: _____ Date: _____

Residence: 225 E. Taylor Street #4
San Jose, CA 95112

Post Office Address: SAME AS ABOVE
U.S.A.

Country of Citizenship: USA

Full name of **third** inventor: LING CHEN

Inventor's signature: _____ Date: _____

Residence: 784 Dartshire Way
Sunnyvale, CA 94087

Post Office Address: SAME AS ABOVE
U.S.A.

Country of Citizenship: P.R. CHINA

Full name of **fourth** inventor: MICHAEL X. YANG

Inventor's signature:  Date: 1/10/2002

Residence: 793 Cereza Drive
Palo Alto, CA 94306

Post Office Address: SAME AS ABOVE
U.S.A.

Country of Citizenship: P.R. CHINA

Full name of **fifth** inventor: MEI CHANG

Inventor's signature: _____ Date: _____

Residence: 12881 Corte de Arguello
Saratoga, CA 95070

Post Office Address: SAME AS ABOVE
U.S.A.

Country of Citizenship: USA

Full name of **sixth** inventor: FUSEN CHEN

Inventor's signature: _____ Date: _____

Residence: 10390 Stern Avenue
Cupertino, CA 95014

Post Office Address: SAME AS ABOVE
U.S.A.

Country of Citizenship: TAIWAN

Full name of **seventh** inventor: CHRISTOPHE MARCADAL

Inventor's signature: _____ Date: _____

Residence: 3655 Proneridge Avenue #124
Santa Clara, CA 95051

Post Office Address: SAME AS ABOVE
U.S.A.

Country of Citizenship: FRANCE

Full name of **eighth** inventor: JENNY C. LIN

Inventor's signature: _____ Date: _____

Residence: 12725 Miller Avenue
Saratoga, CA 95070

Post Office Address: SAME AS ABOVE
U.S.A.

Country of Citizenship: USA

(Declaration ends with this page)

10552631-011702

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- ☐ continuation
- ☒ continuation-in-part

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☐ Such applications have been filed as follows:

- A. Prior foreign/PCT application(s) filed within 12 mos. (6 mos. for design) prior to this application, and any priority claims under 35 U.S.C. 119

<u>Country/PCT</u>	<u>Application No</u>	<u>Date Filed</u>	<u>Priority Claimed</u>
			<input type="checkbox"/> Yes <input type="checkbox"/> No
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			<input type="checkbox"/> Yes <input type="checkbox"/> No

- B. All foreign application(s), if any, filed more than 12 mos. (6 mos for design) prior to this U.S. application

Country:
Application No:
Filing date:

- C. U.S. Provisional Application filed within 12 months prior to this application

<u>Serial No.</u>	<u>Filing Date</u>
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<u>Serial No.</u>	<u>Filing Date</u>	<u>Patented</u>	<u>Pending</u>	<u>Status</u>
				<u>Abandoned</u>
08/856,116	May 14, 1997		Pending	

10052681-011702

POWER OF ATTORNEY

I hereby appoint the following attorneys and/or agents to prosecute this application and transact all business in the Patent and Trademark Office connected therewith:

Donald Verplancken	Registration No. 33,217
Michael B. Einschlag	Registration No. 29,301
Peter J. Sgarbossa	Registration No. 25,610
Lawrence Edelman	Registration No. 25,226
Michael L. Sherrard	Registration No. 28,041
Raymond Kam-On Kwong	Registration No. 37,165
James C. Wilson	Registration No. 35,412
Robert W. Mulcahy	Registration No. 25,436
Walter Benjamin Glenn	Registration No. 44,713
B. Todd Patterson	Registration No. 37,906
Raymond R. Moser, Jr.	Registration No. 34,682
Keith M. Tackett	Registration No. 32,008
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Full name of first inventor: MING XI

Inventor's signature: _____ Date: _____

Residence: 138 Beaumere Way

Milpitas, CA 95035

Post Office Address: SAME AS ABOVE
U.S.A.

Country of Citizenship: P.R. CHINA

Full name of second inventor: PAUL FREDERICK SMITH

Inventor's signature: *Paul Frederick Smith* Date: *01/10/02*

Residence: 225 E. Taylor Street #4

San Jose, CA 95112

Post Office Address: SAME AS ABOVE
U.S.A.

Country of Citizenship: USA

*955 Stonehurst Way
Campbell, CA, 95008*

Full name of **third** inventor: LING CHEN

Inventor's signature: _____ Date: _____

Residence: 784 Dartshire Way
Sunnyvale, CA 94087

Post Office Address: SAME AS ABOVE
U.S.A.

Country of Citizenship: P.R. CHINA

Full name of **fourth** inventor: MICHAEL X. YANG

Inventor's signature: _____ Date: _____

Residence: 793 Cereza Drive
Palo Alto, CA 94306

Post Office Address: SAME AS ABOVE
U.S.A.

Country of Citizenship: P.R. CHINA

Full name of **fifth** inventor: MEI CHANG

Inventor's signature: _____ Date: _____

Residence: 12881 Corte de Arguello
Saratoga, CA 95070

Post Office Address: SAME AS ABOVE
U.S.A.

Country of Citizenship: USA

Full name of **sixth** inventor: FUSEN CHEN

Inventor's signature: _____ Date: _____

Residence: 10390 Stern Avenue
Cupertino, CA 95014

Post Office Address: SAME AS ABOVE
U.S.A.

Country of Citizenship: TAIWAN

Full name of **seventh** inventor: CHRISTOPHE MARCADAL

Inventor's signature: _____ Date: _____

Residence: 3655 Proneridge Avenue #124
Santa Clara, CA 95051

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U.S.A.

Country of Citizenship: FRANCE

Full name of **eighth** inventor: JENNY C. LIN

Inventor's signature: _____ Date: _____

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Saratoga, CA 95070

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Country of Citizenship: USA

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10052531-011702

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Country/PCT	Application No	Date Filed	Priority Claimed
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			<input type="checkbox"/> Yes <input type="checkbox"/> No
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Country:
Application No:
Filing date:

- C. U.S. Provisional Application filed within 12 months prior to this application

Serial No.	Filing Date
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☒ Such applications have been filed, as follows:

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2025081-011703

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Full name of **first** inventor: MING XI

Inventor's signature: _____ Date: _____
Residence: 138 Beaumere Way
Milpitas, CA 95035
Post Office Address: SAME AS ABOVE
U.S.A. Country of Citizenship: P.R. CHINA

Full name of **second** inventor: PAUL FREDERICK SMITH

Inventor's signature: _____ Date: _____
Residence: 225 E. Taylor Street #4
San Jose, CA 95112
Post Office Address: SAME AS ABOVE
U.S.A. Country of Citizenship: USA

Full name of **third** inventor: LING CHEN

Inventor's signature: _____

Date: 1-10-01

Residence:

784 Dartshire Way
Sunnyvale, CA 94087

Post Office Address:

SAME AS ABOVE
U.S.A.

Country of Citizenship: P.R. CHINA

Full name of **fourth** inventor: MICHAEL X. YANG

Inventor's signature: _____

Date: _____

Residence:

793 Cereza Drive
Palo Alto, CA 94306

Post Office Address:

SAME AS ABOVE
U.S.A.

Country of Citizenship: P.R. CHINA

Full name of **fifth** inventor: MEI CHANG

Inventor's signature: _____

Date: _____

Residence:

12881 Corte de Arguello
Saratoga, CA 95070

Post Office Address:

SAME AS ABOVE
U.S.A.

Country of Citizenship: USA

Full name of **sixth** inventor: FUSEN CHEN

Inventor's signature: _____

Date: _____

Residence:

10390 Stern Avenue
Cupertino, CA 95014

Post Office Address:

SAME AS ABOVE
U.S.A.

Country of Citizenship: TAIWAN

Full name of **seventh** inventor: CHRISTOPHE MARCADAL

Inventor's signature: _____

Date: _____

Residence:

3655 Proneridge Avenue #124
Santa Clara, CA 95051

Post Office Address:

SAME AS ABOVE
U.S.A.

Country of Citizenship: FRANCE

Full name of **eighth** inventor: JENNY C. LIN

Inventor's signature: _____

Date: _____

Residence:

12725 Miller Avenue
Saratoga, CA 95070

Post Office Address:

SAME AS ABOVE
U.S.A.

Country of Citizenship: USA

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2025031-044702

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Country:
Application No:
Filing date:

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1005931-014702

POWER OF ATTORNEY

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Donald Verplancken	Registration No. 33,217
Michael B. Einschlag	Registration No. 29,301
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Full name of first inventor: MING XI

Inventor's signature: _____ Date: _____

Residence: 138 Beaumere Way
Milpitas, CA 95035

Post Office Address: SAME AS ABOVE
U.S.A.

Country of Citizenship: P.R. CHINA

Full name of second inventor: PAUL FREDERICK SMITH

Inventor's signature: _____ Date: _____

Residence: 225 E. Taylor Street #4
San Jose, CA 95112

Post Office Address: SAME AS ABOVE
U.S.A.

Country of Citizenship: USA

20250811 04:17:02

Full name of **third** inventor: LING CHEN

Inventor's signature: _____ Date: _____
Residence: 784 Dartshire Way
Sunnyvale, CA 94087
Post Office Address: SAME AS ABOVE
U.S.A. Country of Citizenship: P.R. CHINA

Full name of **fourth** inventor: MICHAEL X. YANG

Inventor's signature: _____ Date: _____
Residence: 793 Cereza Drive
Palo Alto, CA 94306
Post Office Address: SAME AS ABOVE
U.S.A. Country of Citizenship: P.R. CHINA

Full name of **fifth** inventor: MEI CHANG

Inventor's signature: *Mei Chang* Date: Jan 15 '02
Residence: 12881 Corte de Arguello
Saratoga, CA 95070
Post Office Address: SAME AS ABOVE
U.S.A. Country of Citizenship: USA

Full name of **sixth** inventor: FUSEN CHEN

Inventor's signature: _____ Date: _____
Residence: 10390 Stern Avenue
Cupertino, CA 95014
Post Office Address: SAME AS ABOVE
U.S.A. Country of Citizenship: TAIWAN

Full name of **seventh** inventor: CHRISTOPHE MARCADAL

Inventor's signature: _____ Date: _____
Residence: 3655 Proneridge Avenue #124
Santa Clara, CA 95051
Post Office Address: SAME AS ABOVE
U.S.A. Country of Citizenship: FRANCE

Full name of **eighth** inventor: JENNY C. LIN

Inventor's signature: _____ Date: _____
Residence: 12725 Miller Avenue
Saratoga, CA 95070
Post Office Address: SAME AS ABOVE
U.S.A. Country of Citizenship: USA

(Declaration ends with this page)

204710-13925001

COMBINED DECLARATION AND POWER OF ATTORNEY

As a below named inventor, I hereby declare that:

This declaration is of the following type:

- ☐ original
- ☐ divisional
- ☐ continuation
- ☒ continuation-in-part

INVENTORSHIP IDENTIFICATION

My residence, post office address and citizenship are as stated below next to my name. I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled:

RELIABILITY BARRIER INTEGRATION FOR CU APPLICATION

SPECIFICATION IDENTIFICATION

The specification of which:

- ☒ is attached hereto
- ☐ was filed on , under Serial No. , executed on even date herewith; or
- ☐ Express Mail No. (as Serial No. not yet known)
- and was amended on _____ (if applicable)
- ☐ was described and claimed in PCT International Application No. _____
- filed on _____ and as amended under PCT Article 19 on _____.

ACKNOWLEDGMENT OF REVIEW OF PAPERS AND DUTY OF CANDOR

I hereby state that I have reviewed and understand the contents of the above-identified specification, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose all information I know to be material to patentability in accordance with

Title 37, Code of Federal Regulations, 1.56, and which is material to the examination of this application; namely, information where there is a substantial likelihood that a reasonable Examiner would consider it important in deciding whether to allow the application to issue as a patent, and

- ☐ In compliance with this duty there is attached an Information Disclosure Statement in accordance with 37 CFR 1.98.

PRIORITY CLAIM (35 U.S.C. 119)

I hereby claim foreign priority benefits under Title 35, United States Code, 119, of any provisional or foreign application(s) for patent or inventor's certificate or of any PCT international application(s) designating at least one country other than the United States of America listed below, and have also identified below any provisional or foreign application(s) for patent or inventor's certificate or any PCT international application(s) designating at least one country other than the United States of America filed by me on the same subject matter having a filing date before that of the application(s) of which priority is claimed.

☒ No such applications have been filed.

☐ Such applications have been filed as follows:

- A. Prior foreign/PCT application(s) filed within 12 mos. (6 mos. for design) prior to this application, and any priority claims under 35 U.S.C. 119

Country/PCT	Application No	Date Filed	Priority Claimed
			<input type="checkbox"/> Yes <input type="checkbox"/> No
			<input type="checkbox"/> Yes <input type="checkbox"/> No
			<input type="checkbox"/> Yes <input type="checkbox"/> No

- B. All foreign application(s), if any, filed more than 12 mos. (6 mos for design) prior to this U.S. application

Country:
Application No:
Filing date:

- C. U.S. Provisional Application filed within 12 months prior to this application

Serial No.	Filing Date
------------	-------------

PRIORITY CLAIM (35 U.S.C. 120)

I hereby claim the benefit under Title 35, United States Code, 120, of any United States application(s) or PCT international application(s) designating the United States of America that is/are listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in that/those prior application(s) in the manner provided by the first paragraph of Title 35, United States Code, 112, I acknowledge the duty to disclose information that is material to the examination of this application (namely, information where there is substantial likelihood that a reasonable Examiner would consider it important in deciding whether to allow the application to issue as a patent) which occurred between the filing date of the prior application(s) and the national or PCT international filing date of this application.

☐ No such applications have been filed
☒ Such applications have been filed, as follows:

Serial No.	Filing Date	Patented	Pending	Status
08/856,116	May 14, 1997		Pending	Abandoned

10052661-011702

POWER OF ATTORNEY

I hereby appoint the following attorneys and/or agents to prosecute this application and transact all business in the Patent and Trademark Office connected therewith:

Donald Verplancken	Registration No. 33,217
Michael B. Einschlag	Registration No. 29,301
Peter J. Sgarbossa	Registration No. 25,610
Lawrence Edelman	Registration No. 25,226
Michael L. Sherrard	Registration No. 28,041
Raymond Kam-On Kwong	Registration No. 37,165
James C. Wilson	Registration No. 35,412
Robert W. Mulcahy	Registration No. 25,436
Walter Benjamin Glenn	Registration No. 44,713
B. Todd Patterson	Registration No. 37,906
Raymond R. Moser, Jr.	Registration No. 34,682
Keith M. Tackett	Registration No. 32,008
Douglas H. Elliott	Registration No. 32,982
William B. Patterson	Registration No. 34,102

Send correspondence to:

Patent Counsel
Applied Materials, Inc.
P.O. Box 450-A
Santa Clara, CA 95052

Direct telephone calls to:

B. Todd Patterson
MOSER, PATTERSON & SHERIDAN, L.L.P.
713-623-4844

DECLARATION

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and, further, that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Sec. 1001 of Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application or any patents issued thereon.

Full name of first inventor: MING XI

Inventor's signature: _____ Date: _____

Residence: 138 Beaumere Way
Milpitas, CA 95035

Post Office Address: SAME AS ABOVE
U.S.A.

Country of Citizenship: P.R. CHINA

Full name of second inventor: PAUL FREDERICK SMITH

Inventor's signature: _____ Date: _____

Residence: 225 E. Taylor Street #4
San Jose, CA 95112

Post Office Address: SAME AS ABOVE
U.S.A.

Country of Citizenship: USA

10052631.011702

Full name of **third** inventor: LING CHEN

Inventor's signature: _____ Date: _____

Residence: 784 Dartshire Way
Sunnyvale, CA 94087

Post Office Address: SAME AS ABOVE
U.S.A.

Country of Citizenship: P.R. CHINA

Full name of **fourth** inventor: MICHAEL X. YANG

Inventor's signature: _____ Date: _____

Residence: 793 Cereza Drive
Palo Alto, CA 94306

Post Office Address: SAME AS ABOVE
U.S.A.

Country of Citizenship: P.R. CHINA

Full name of **fifth** inventor: MEI CHANG


Inventor's signature: _____ Date: _____

Residence: 12881 Corte de Arguello
Saratoga, CA 95070

Post Office Address: SAME AS ABOVE
U.S.A.

Country of Citizenship: USA

Full name of **sixth** inventor: FUSEN CHEN

Inventor's signature:  Date: 1/14/02

Residence: 10390 Stern Avenue
Cupertino, CA 95014

Post Office Address: SAME AS ABOVE
U.S.A.

Country of Citizenship: TAIWAN

Full name of **seventh** inventor: CHRISTOPHE MARCADAL

Inventor's signature: _____ Date: _____

Residence: 3655 Proneridge Avenue #124
Santa Clara, CA 95051

Post Office Address: SAME AS ABOVE
U.S.A.

Country of Citizenship: FRANCE

Full name of **eighth** inventor: JENNY C. LIN

Inventor's signature: _____ Date: _____

Residence: 12725 Miller Avenue
Saratoga, CA 95070

Post Office Address: SAME AS ABOVE
U.S.A.

Country of Citizenship: USA

(Declaration ends with this page)

10052681.011702

COMBINED DECLARATION AND POWER OF ATTORNEY

As a below named inventor, I hereby declare that:

This declaration is of the following type:

- ☐ original
- ☐ divisional
- ☐ continuation
- ☒ continuation-in-part

INVENTORSHIP IDENTIFICATION

My residence, post office address and citizenship are as stated below next to my name. I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled:

RELIABILITY BARRIER INTEGRATION FOR CU APPLICATION

SPECIFICATION IDENTIFICATION

The specification of which:

- ☒ is attached hereto
- ☐ was filed on _____, under Serial No. _____, executed on even date herewith; or
- ☐ Express Mail No. (as Serial No. not yet known)
- and was amended on _____ (if applicable)
- ☐ was described and claimed in PCT International Application No. _____
- filed on _____ and as amended under PCT Article 19 on _____.

ACKNOWLEDGMENT OF REVIEW OF PAPERS AND DUTY OF CANDOR

I hereby state that I have reviewed and understand the contents of the above-identified specification, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose all information I know to be material to patentability in accordance with

Title 37, Code of Federal Regulations, 1.56, and which is material to the examination of this application; namely, information where there is a substantial likelihood that a reasonable Examiner would consider it important in deciding whether to allow the application to issue as a patent, and

- ☐ In compliance with this duty there is attached an Information Disclosure Statement in accordance with 37 CFR 1.98.

10052631-011702

PRIORITY CLAIM (35 U.S.C. 119)

I hereby claim foreign priority benefits under Title 35, United States Code, 119, of any provisional or foreign application(s) for patent or inventor's certificate or of any PCT international application(s) designating at least one country other than the United States of America listed below, and have also identified below any provisional or foreign application(s) for patent or inventor's certificate or any PCT international application(s) designating at least one country other than the United States of America filed by me on the same subject matter having a filing date before that of the application(s) of which priority is claimed.

☒ No such applications have been filed.

☐ Such applications have been filed as follows:

- A. Prior foreign/PCT application(s) filed within 12 mos. (6 mos. for design) prior to this application, and any priority claims under 35 U.S.C. 119

<u>Country/PCT</u>	<u>Application No</u>	<u>Date Filed</u>	<u>Priority Claimed</u>
			<input type="checkbox"/> Yes <input type="checkbox"/> No
			<input type="checkbox"/> Yes <input type="checkbox"/> No
			<input type="checkbox"/> Yes <input type="checkbox"/> No

- B. All foreign application(s), if any, filed more than 12 mos. (6 mos for design) prior to this U.S. application

Country:
Application No:
Filing date:

- C. U.S. Provisional Application filed within 12 months prior to this application

<u>Serial No.</u>	<u>Filing Date</u>
-------------------	--------------------

PRIORITY CLAIM (35 U.S.C. 120)

I hereby claim the benefit under Title 35, United States Code, 120, of any United States application(s) or PCT international application(s) designating the United States of America that is/are listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in that/those prior application(s) in the manner provided by the first paragraph of Title 35, United States Code, 112, I acknowledge the duty to disclose information that is material to the examination of this application (namely, information where there is substantial likelihood that a reasonable Examiner would consider it important in deciding whether to allow the application to issue as a patent) which occurred between the filing date of the prior application(s) and the national or PCT international filing date of this application.

☐ No such applications have been filed
☒ Such applications have been filed, as follows:

<u>Serial No.</u>	<u>Filing Date</u>	<u>Patented</u>	<u>Pending</u>	<u>Status</u> <u>Abandoned</u>
08/856,116	May 14, 1997		Pending	

10055551-011000

POWER OF ATTORNEY

I hereby appoint the following attorneys and/or agents to prosecute this application and transact all business in the Patent and Trademark Office connected therewith:

Donald Verplancken	Registration No. 33,217
Michael B. Einschlag	Registration No. 29,301
Peter J. Sgarbossa	Registration No. 25,610
Lawrence Edelman	Registration No. 25,226
Michael L. Sherrard	Registration No. 28,041
Raymond Kam-On Kwong	Registration No. 37,165
James C. Wilson	Registration No. 35,412
Robert W. Mulcahy	Registration No. 25,436
Walter Benjamin Glenn	Registration No. 44,713
B. Todd Patterson	Registration No. 37,906
Raymond R. Moser, Jr.	Registration No. 34,682
Keith M. Tackett	Registration No. 32,008
Douglas H. Elliott	Registration No. 32,982
William B. Patterson	Registration No. 34,102

Send correspondence to:

Patent Counsel
Applied Materials, Inc.
P.O. Box 450-A
Santa Clara, CA 95052

Direct telephone calls to:

B. Todd Patterson
MOSER, PATTERSON & SHERIDAN, L.L.P.
713-623-4844

DECLARATION

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and, further, that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Sec. 1001 of Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application or any patents issued thereon.

Full name of first inventor: MING XI

Inventor's signature: _____ Date: _____

Residence: 138 Beaumere Way
Milpitas, CA 95035

Post Office Address: SAME AS ABOVE
U.S.A.

Country of Citizenship: P.R. CHINA

Full name of second inventor: PAUL FREDERICK SMITH

Inventor's signature: _____ Date: _____

Residence: 225 E. Taylor Street #4
San Jose, CA 95112

Post Office Address: SAME AS ABOVE
U.S.A.

Country of Citizenship: USA

Full name of **third** inventor: LING CHEN

Inventor's signature: _____ Date: _____

Residence: 784 Dartshire Way
Sunnyvale, CA 94087

Post Office Address: SAME AS ABOVE
U.S.A.

Country of Citizenship: P.R. CHINA

Full name of **fourth** inventor: MICHAEL X. YANG

Inventor's signature: _____ Date: _____

Residence: 793 Cereza Drive
Palo Alto, CA 94306

Post Office Address: SAME AS ABOVE
U.S.A.

Country of Citizenship: P.R. CHINA

Full name of **fifth** inventor: MEI CHANG

Inventor's signature: _____ Date: _____

Residence: 12881 Corte de Arguello
Saratoga, CA 95070

Post Office Address: SAME AS ABOVE
U.S.A.

Country of Citizenship: USA

Full name of **sixth** inventor: FUSEN CHEN

Inventor's signature: _____ Date: _____

Residence: 10390 Stern Avenue
Cupertino, CA 95014

Post Office Address: SAME AS ABOVE
U.S.A.

Country of Citizenship: TAIWAN

Full name of **seventh** inventor: CHRISTOPHE MARCADAL

Inventor's signature:  Date: 1-10-02

Residence: 3655 Princeton Avenue #124
Santa Clara, CA 95051

Post Office Address: SAME AS ABOVE
U.S.A.

Country of Citizenship: FRANCE

Full name of **eighth** inventor: JENNY C. LIN

Inventor's signature: _____ Date: _____

Residence: 12725 Miller Avenue
Saratoga, CA 95070

Post Office Address: SAME AS ABOVE
U.S.A.

Country of Citizenship: USA

(Declaration ends with this page)

1053331-011703

COMBINED DECLARATION AND POWER OF ATTORNEY

As a below named inventor, I hereby declare that:

This declaration is of the following type:

- ☐ original
- ☐ divisional
- ☐ continuation
- ☒ continuation-in-part

INVENTORSHIP IDENTIFICATION

My residence, post office address and citizenship are as stated below next to my name. I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled:

RELIABILITY BARRIER INTEGRATION FOR CU APPLICATION

SPECIFICATION IDENTIFICATION

The specification of which:

- ☒ is attached hereto
- ☐ was filed on , under Serial No. , executed on even date herewith; or
- ☐ Express Mail No. (as Serial No. not yet known)
- and was amended on _____ (if applicable)
- ☐ was described and claimed in PCT International Application No. _____
- filed on _____ and as amended under PCT Article 19 on _____.

ACKNOWLEDGMENT OF REVIEW OF PAPERS AND DUTY OF CANDOR

I hereby state that I have reviewed and understand the contents of the above-identified specification, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose all information I know to be material to patentability in accordance with

Title 37, Code of Federal Regulations, 1.56, and which is material to the examination of this application; namely, information where there is a substantial likelihood that a reasonable Examiner would consider it important in deciding whether to allow the application to issue as a patent, and

- ☐ In compliance with this duty there is attached an Information Disclosure Statement in accordance with 37 CFR 1.98.

PRIORITY CLAIM (35 U.S.C. 119)

I hereby claim foreign priority benefits under Title 35, United States Code, 119, of any provisional or foreign application(s) for patent or inventor's certificate or of any PCT international application(s) designating at least one country other than the United States of America listed below, and have also identified below any provisional or foreign application(s) for patent or inventor's certificate or any PCT international application(s) designating at least one country other than the United States of America filed by me on the same subject matter having a filing date before that of the application(s) of which priority is claimed.

☒ No such applications have been filed.

☐ Such applications have been filed as follows:

- A. Prior foreign/PCT application(s) filed within 12 mos. (6 mos. for design) prior to this application, and any priority claims under 35 U.S.C. 119

<u>Country/PCT</u>	<u>Application No</u>	<u>Date Filed</u>	<u>Priority Claimed</u>
			<input type="checkbox"/> Yes <input type="checkbox"/> No
			<input type="checkbox"/> Yes <input type="checkbox"/> No
			<input type="checkbox"/> Yes <input type="checkbox"/> No

- B. All foreign application(s), if any, filed more than 12 mos. (6 mos for design) prior to this U.S. application

Country:
Application No:
Filing date:

- C. U.S. Provisional Application filed within 12 months prior to this application

<u>Serial No.</u>	<u>Filing Date</u>
-------------------	--------------------

PRIORITY CLAIM (35 U.S.C. 120)

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☐ No such applications have been filed
☒ Such applications have been filed, as follows:

<u>Serial No.</u>	<u>Filing Date</u>	<u>Patented</u>	<u>Pending</u>	<u>Abandoned</u>	<u>Status</u>
08/856,116	May 14, 1997		Pending		

10052681 011702

POWER OF ATTORNEY

I hereby appoint the following attorneys and/or agents to prosecute this application and transact all business in the Patent and Trademark Office connected therewith:

Donald Verplancken	Registration No. 33,217
Michael B. Einschlag	Registration No. 29,301
Peter J. Sgarbossa	Registration No. 25,610
Lawrence Edelman	Registration No. 25,226
Michael L. Sherrard	Registration No. 28,041
Raymond Kam-On Kwong	Registration No. 37,165
James C. Wilson	Registration No. 35,412
Robert W. Mulcahy	Registration No. 25,436
Walter Benjamin Glenn	Registration No. 44,713
B. Todd Patterson	Registration No. 37,906
Raymond R. Moser, Jr.	Registration No. 34,682
Keith M. Tackett	Registration No. 32,008
Douglas H. Elliott	Registration No. 32,982
William B. Patterson	Registration No. 34,102

Send correspondence to:

Patent Counsel
Applied Materials, Inc.
P.O. Box 450-A
Santa Clara, CA 95052

Direct telephone calls to:

B. Todd Patterson
MOSER, PATTERSON & SHERIDAN, L.L.P.
713-623-4844

DECLARATION

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and, further, that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Sec. 1001 of Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application or any patents issued thereon.

Full name of **first** inventor: MING XI

Inventor's signature: _____ Date: _____

Residence: 138 Beaumere Way
Milpitas, CA 95035

Post Office Address: SAME AS ABOVE
U.S.A.

Country of Citizenship: P.R. CHINA

Full name of **second** inventor: PAUL FREDERICK SMITH

Inventor's signature: _____ Date: _____

Residence: 225 E. Taylor Street #4
San Jose, CA 95112

Post Office Address: SAME AS ABOVE
U.S.A.

Country of Citizenship: USA

Full name of **third** inventor: LING CHEN

Inventor's signature: _____ Date: _____

Residence: 784 Dartshire Way
Sunnyvale, CA 94087

Post Office Address: SAME AS ABOVE
U.S.A.

Country of Citizenship: P.R. CHINA

Full name of **fourth** inventor: MICHAEL X. YANG

Inventor's signature: _____ Date: _____

Residence: 793 Cereza Drive
Palo Alto, CA 94306

Post Office Address: SAME AS ABOVE
U.S.A.

Country of Citizenship: P.R. CHINA

Full name of **fifth** inventor: MEI CHANG

Inventor's signature: _____ Date: _____

Residence: 12881 Corte de Arguello
Saratoga, CA 95070

Post Office Address: SAME AS ABOVE
U.S.A.

Country of Citizenship: USA

Full name of **sixth** inventor: FUSEN CHEN

Inventor's signature: _____ Date: _____

Residence: 10390 Stern Avenue
Cupertino, CA 95014

Post Office Address: SAME AS ABOVE
U.S.A.

Country of Citizenship: TAIWAN

Full name of **seventh** inventor: CHRISTOPHE MARCADAL

Inventor's signature: _____ Date: _____

Residence: 3655 Proneridge Avenue #124
Santa Clara, CA 95051

Post Office Address: SAME AS ABOVE
U.S.A.

Country of Citizenship: FRANCE

Full name of **eighth** inventor: JENNY C. LIN

Inventor's signature:  _____ Date: 1/16/02

Residence: 12725 Miller Avenue
Saratoga, CA 95070 J.L. 20532 E. Dorado Ct.

Post Office Address: SAME AS ABOVE
U.S.A.

Country of Citizenship: USA

(Declaration ends with this page)

10052631-01403